

24. A method of treating a subject with a demyelinating disease, said method comprising:

transplanting an enriched or purified preparation of human mitotic oligodendrocyte progenitor cells into the subject under conditions effective to treat the demyelinating disease.

25. The method according to claim 24, wherein the mitotic oligodendrocyte progenitor cells are from a post-natal human.

26. The method according to claim 24, wherein the mitotic oligodendrocyte progenitor cells are from an adult human.

Please amend claim 19 as follows:

19. (Twice Amended) An enriched or purified preparation of human mitotic oligodendrocyte progenitor cells.